

ABSTRACT

A block synchronization detection apparatus and method. Block synchronization for discriminating one error correction code (ECC) block from another is detected, even when a first sector of the ECC block is not detected in a system having a decoder that decodes an ECC in units of ECC blocks. The block synchronization detection apparatus includes an operator performing an operation on a predetermined last sector number, an n -th sector number, and an $(n-1)$ -th sector number contained in a block, based on a predetermined operation relation; and a comparator comparing a result of the operation output from the operator with a predetermined threshold value and outputting the result of the comparison as a block synchronization signal.